Clarke®

24L AIR COMPRESSOR

MODEL NO: PANTHER 10/240

PART NO: 2242100

OPERATION & MAINTENANCE INSTRUCTIONS

CE

LS0113

INTRODUCTION

Thank you for purchasing this CLARKE 24L Air Compressor.

Read this manual fully before use and follow the instructions carefully. In doing so you will ensure the safety of yourself and those around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

PARTS AND SERVICING

For Parts & Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400
PARTS & SERVICE FAX: 020 8558 3622
or e-mail as follows:
PARTS: Parts@clarkeinternational.com
SERVICE: Service@clarkeinternational.com

SAFETY PRECAUTIONS

Before using your compressor it is in your own interest to read and pay attention to the following safety rules.

1. Compressed air is dangerous. Do not point a jet of air at persons or animals, and do not discharge compressed air against the skin.
2. DO NOT operate your compressor with the guard removed.
3. Repairs must only be carried out by a qualified engineer. If problems occur, contact your Clarke dealer.
4. Before carrying out any maintenance, make sure that the pressure is released from the air reservoir, and that the compressor is disconnected from the electrical supply.
5. DO NOT leave pressure in the receiver overnight, or when transporting.
6. DO NOT adjust, or tamper with the safety valves. The maximum pressure is factory set, and clearly marked on the compressor.
7. DO NOT operate in wet or damp conditions. Keep the compressor dry at all times. Similarly, clean air will allow the compressor to work efficiently. Do not use in dusty or otherwise dirty locations.
8. Some of the metal parts can become quite hot during operation. Do not to touch these until the compressor has cooled down.
9. Always set the pressure regulator to the recommended setting for the tool.
10. When spraying flammable materials e.g. cellulose paint, ensure that there is sufficient airflow and keep clear of any source of ignition.
11. Before spraying any material always consult paint manufacturers instructions for safety and usage.
12. Protect yourself. Goggles will protect your eyes from flying particles. Face masks will protect you against paint spray and fumes.
13. Do not apply strain to electrical cables and make sure that air hoses are not kinked or wrapped around the compressor.
14. When disconnecting air hoses or other equipment from your compressor, make sure that the air supply is turned off at the outlet and vent all pressurised air from within the reservoir and other equipment attached to it.
15. Make sure that children and animals are kept well away from the compressor and any equipment attached to it.
16. Make sure that all individuals using the compressor have had the necessary training and have read and fully understand these operating instructions.
17. Make sure that any equipment or tool used in conjunction with your compressor, has a safe working pressure exceeding that of the compressor.
18. Be careful when transporting the compressor to prevent tipping over
19. Permanently installed systems must be installed by a competent engineer.
20. These compressors produce noise levels in excess of 70dB(A). Persons working near the compressor must be supplied with ear protection.

ELECTRICAL CONNECTIONS

WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

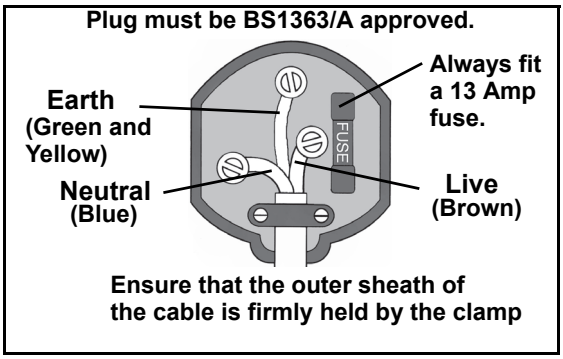
Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch.

If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following the wiring instructions shown below. The old plug must be discarded safely, as insertion into a power socket could cause an electrical hazard.

WARNING! The wires in the power cable of this product are coloured in accordance with the following code:
Blue = Neutral Brown = Live Yellow and Green = Earth

If the colours of the wires in the power cable do not agree with the markings on the plug:

- The BLUE wire must be connected to the terminal which is marked N or coloured black.
- The BROWN wire must be connected to the terminal which is marked L or coloured red.
- The YELLOW AND GREEN wire must be connected to the terminal which is marked E or ⏚ or coloured green.


Plug must be BS1363/A approved.
Always fit a 13 Amp fuse.
Earth (Green and Yellow)
Neutral (Blue)
Live (Brown)
FUSE
Ensure that the outer sheath of the cable is firmly held by the clamp

We strongly recommend that this machine is connected to the mains supply through a Residual Current Device (RCD)

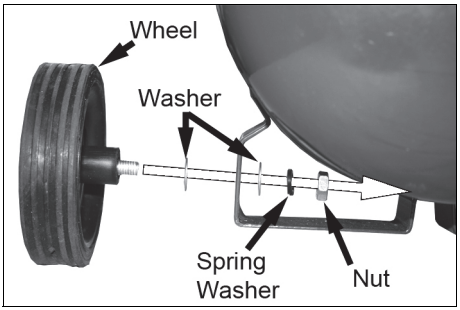
If you are not sure, consult a qualified electrician. DO NOT try to do any repairs.

ASSEMBLY

ATTACH THE WHEELS

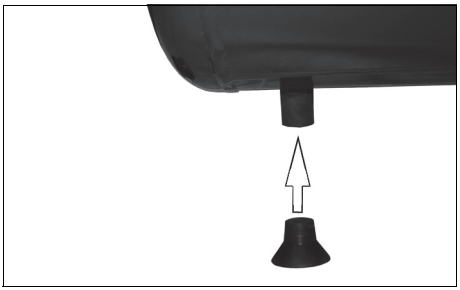
Use a spanner to attach the wheels to the compressor.

Use the washers and spring washer in the positions shown.



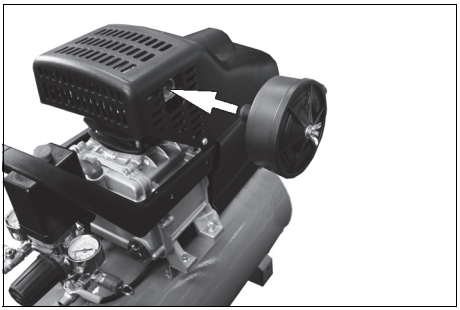
ATTACH THE SUPPORT FOOT

Insert the support foot into the position shown.



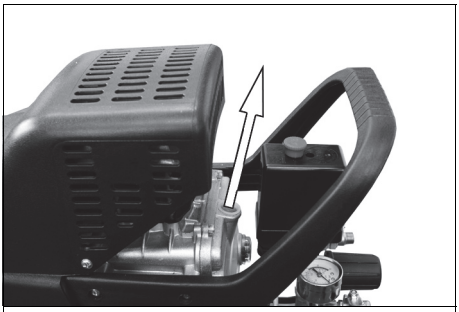
FIT THE AIR FILTER

1. If fitted, remove the travel plug.
2. Screw the air filter into position.
   - The air filter must be hand tight only.

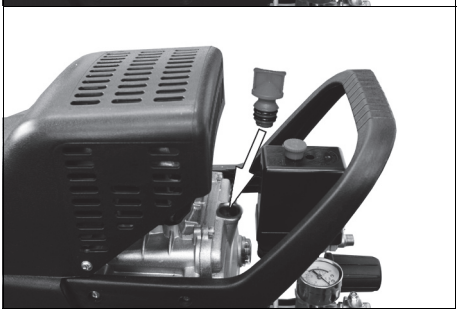


FIT THE OIL FILLER CAP

1. Remove the travel plug.



2. Insert the oil filler cap.



MOVING THE AIR COMPRESSOR

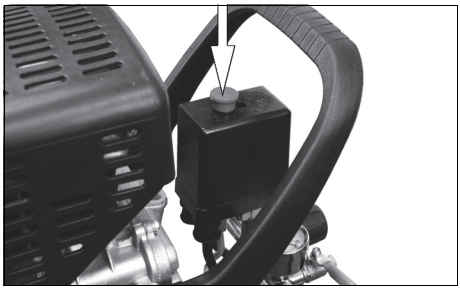
CAUTION: TO PREVENT INJURY, GET ASSISTANCE WHEN LIFTING THIS COMPRESSOR.

- Stop the compressor and disconnect it from the power supply before you move it.
- Always use the handle.
- To prevent damage, do not lift by (or put strain on) valves or hoses.

BEFORE USE

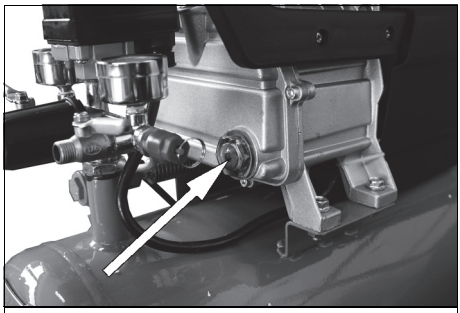
Before connecting your compressor to the power supply, check the following:-

- Set the ON/OFF switch to the OFF position (pushed down).
- Make sure that the compressor is on level ground.
- Make sure that the supply voltage matches the voltage shown on the data label.

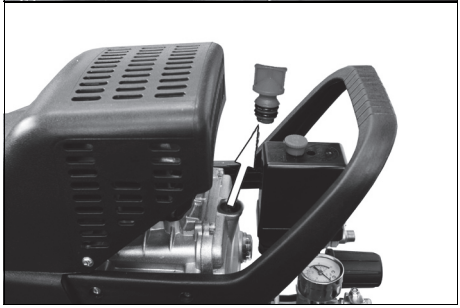


CHECK THE OIL LEVEL

1. Make sure that the oil level is half way up the oil sight glass.



2. If not, remove the oil cap and add oil to the reservoir.
   - Only use SAE30 compressor oil, available from your Clarke Dealer Part No. 3050801



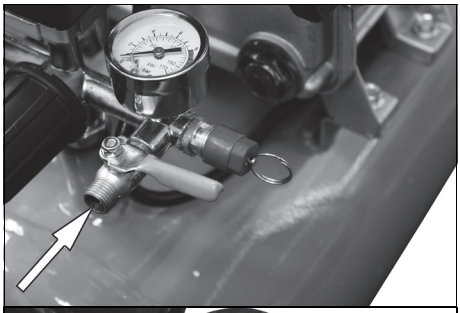
OPERATION

If the compressor has not been used for more then 24 hours, open the drain valve (on the bottom of the reservoir) and drain any condensate which has collected. See page 11

ATTACHING AIR TOOLS

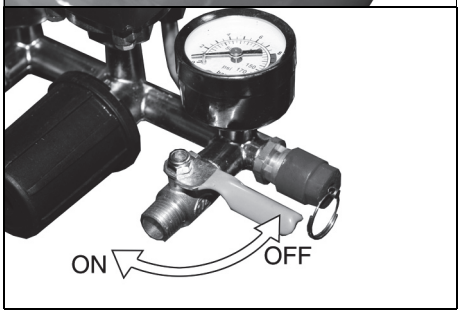
WARNING: BEFORE CONNECTING AIR TOOLS, MAKE SURE THAT YOU READ THE INSTRUCTIONS SUPPLIED WITH THE TOOL, ALSO ENSURE THAT THE TOOL IS SUITABLE FOR USE WITH THE COMPRESSOR AND HOSE SPECIFICATIONS.

1. Attach the air hose to the ¼" BSP outlet valve.
2. Attach the air tool to the other end of the air hose.



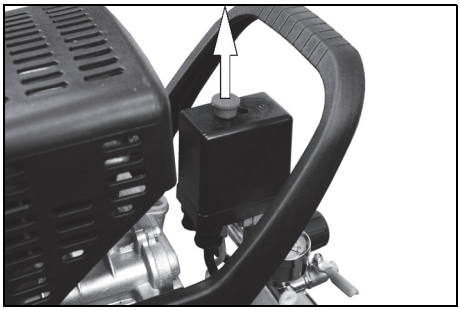
3. Turn the outlet valve handle to the on position.

NOTE: The outlet valve is shown without the air hose fitted for clarity.



TURNING THE COMPRESSOR ON

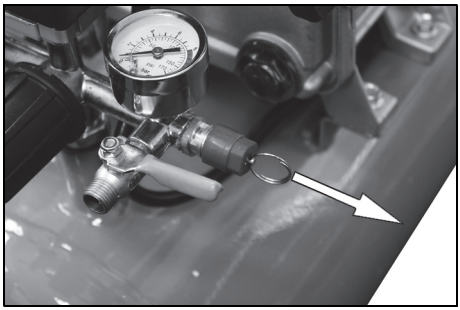
1. Plug the compressor into the power supply.
2. Lift the On/Off button.
   - The compressor will operate until the reservoir is fully pressurised. It will then shut down.
   - The compressor will start up again when the pressure in the reservoir decreases.



CHECK THE SAFETY VALVE

To make sure that the safety valve works correctly:

1. Pull on the ring attached.
    - Air will be released when you pull on the ring and stop when released.
2. If the valve does not operate in this way, do not use the compressor. The compressor must be repaired by a qualified service agent.

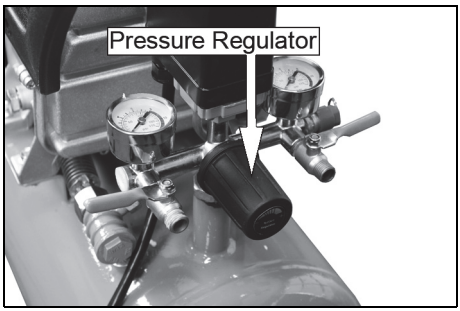


WARNING: DO NOT REMOVE OR TRY TO ADJUST THE SAFETY VALVE.

SET THE OUTPUT PRESSURE

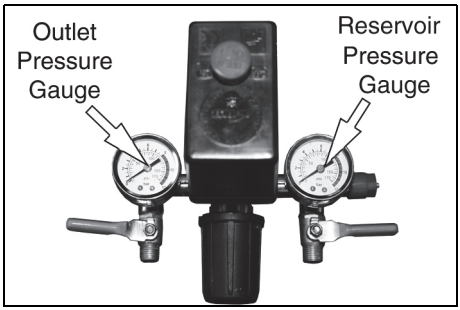
When viewed from the front, the left hand outlet valve is adjustable. The right hand outlet valve will only supply the full reservoir pressure and is not adjustable.

1. Use the pressure regulator to set the output pressure of the left hand outlet valve.
    - Turn clockwise to increase the pressure.
    - Turn counterclockwise to decrease the pressure.



GAUGES

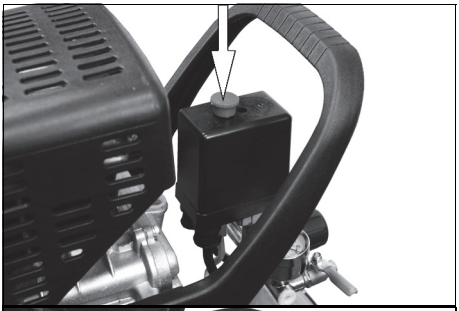
1. The reservoir pressure gauge shows the current pressure in the reservoir.
2. The outlet pressure gauge shows the 'user set' outlet pressure. This can be adjusted as shown above.



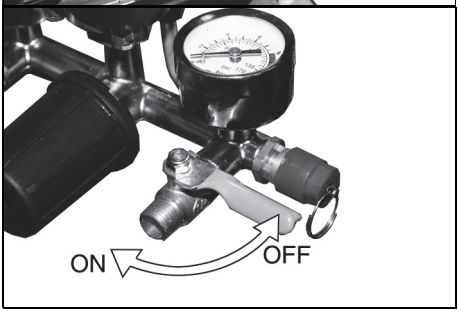
REMOVING TOOLS FROM THE AIR HOSE

WARNING: ALWAYS SET THE PRESSURE REGULATOR TO ZERO BEFORE YOU REMOVE OR REPLACE A TOOL.

1. Push down on the On/Off button to stop the compressor.

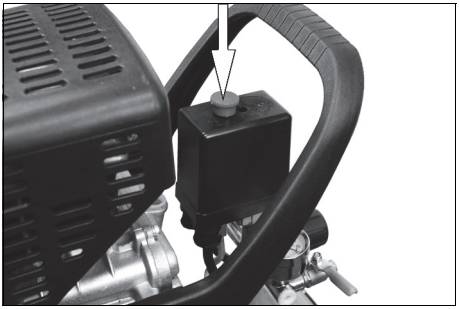


2. Turn the outlet valve handle to the off position.
3. Operate the tool to depressurise the air hose.
4. Disconnect the tool from the hose.



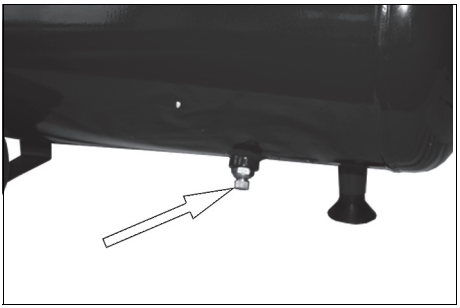
TURNING THE COMPRESSOR OFF

1. Follow steps 1-3 in "Removing Tools From The Air Hose" above.
2. Disconnect the compressor from the power supply.
3. Slowly open one of the outlet valves to depressurise the reservoir.
   - You will hear a hissing sound as the reservoir depressurises.
   - Do not leave the compressor unattended if the reservoir is pressurised.



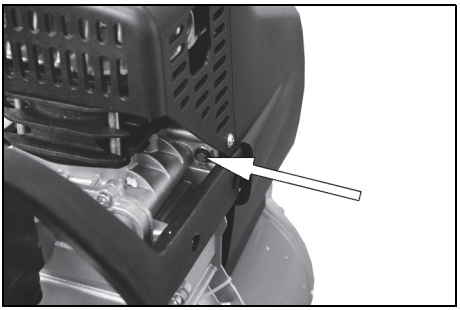
DRAINING THE RESERVOIR

CAUTION: YOU MUST DRAIN THE RESERVOIR AFTER EACH DAYS USE AND BEFORE YOU PUT YOUR COMPRESSOR INTO STORAGE.



1. Turn the compressor off and disconnect from the power supply.
2. Put a container below the drain valve to collect the condensate.
3. Open the drain valve slowly.
   - Condensation will drain from the reservoir.
4. Close the drain valve when the reservoir has fully drained.

RESET BUTTON



This compressor has a thermal overload device.

If the motor gets too hot, the thermal overload device cuts the power which prevents damage to the motor.

If the thermal overload device operates, let the motor cool down for 5 minutes and push the reset button.

If you start the compressor and the overload cutout operates again, stop the compressor and disconnect from the power supply and have your compressor examined by a qualified service agent.

MAINTENANCE

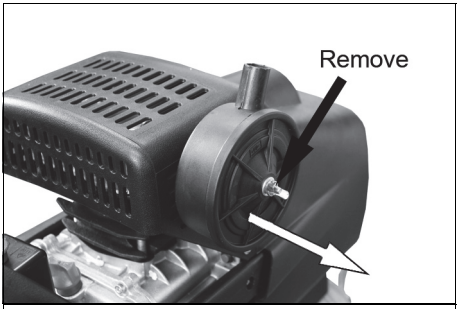
DRAIN THE RESERVOIR (DAILY)

After use, always open the drain valve to make sure that any condensate is drained off.

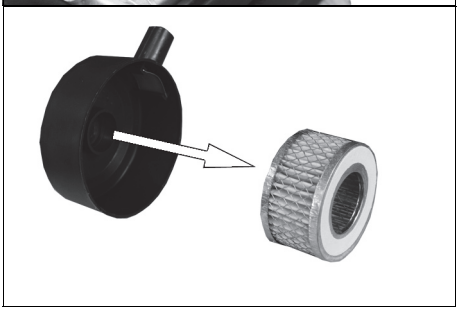
CLEAN THE AIR FILTER (MONTHLY)

The air filter must be examined monthly, more often in dusty conditions,

1. Remove the filter cover from the filter.



2. Remove the filter from the filter cover.
3. Clean the filter using a soft brush.
   - If necessary, the filter can be carefully cleaned in warm soapy water.
   - Rinse and let the filter dry completely before refitting.
4. Make sure that the filter and filter cover are replaced into position.
   - If the filter is damaged, you must replace it.

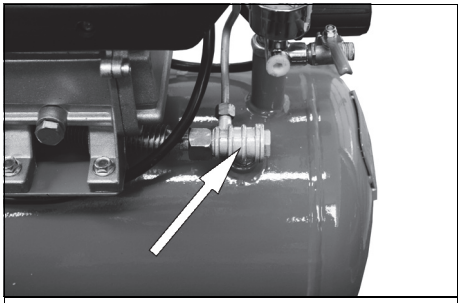


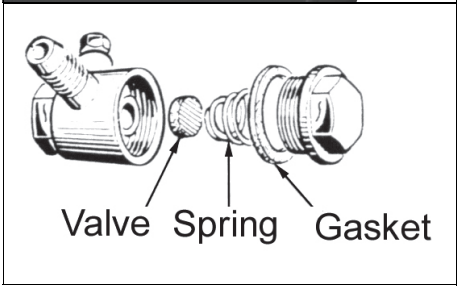
Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

CHECK THE NON-RETURN VALVE (EVERY 6 MONTHS)

If the reservoir pressure decreases for no apparent reason, it is possible that the non-return valve is leaking. To check,

1. Make sure that the reservoir is not under pressure and the compressor is switched OFF and disconnected from the power supply.
2. Examine the non-return valve, and replace the gasket and valve if necessary.





SPECIFICATIONS

Max Pressure	8 Bar
Voltage	230 VAC (50/60Hz)
Air Displacement	9.5 CFM
Receiver Capacity	24 L
Fuse Rating	13 A
Dimensions (L x W x H)	568 x 320 x 607 mm
Guaranteed Sound Power Level	97 dB(A)
Weight	27.45 kg

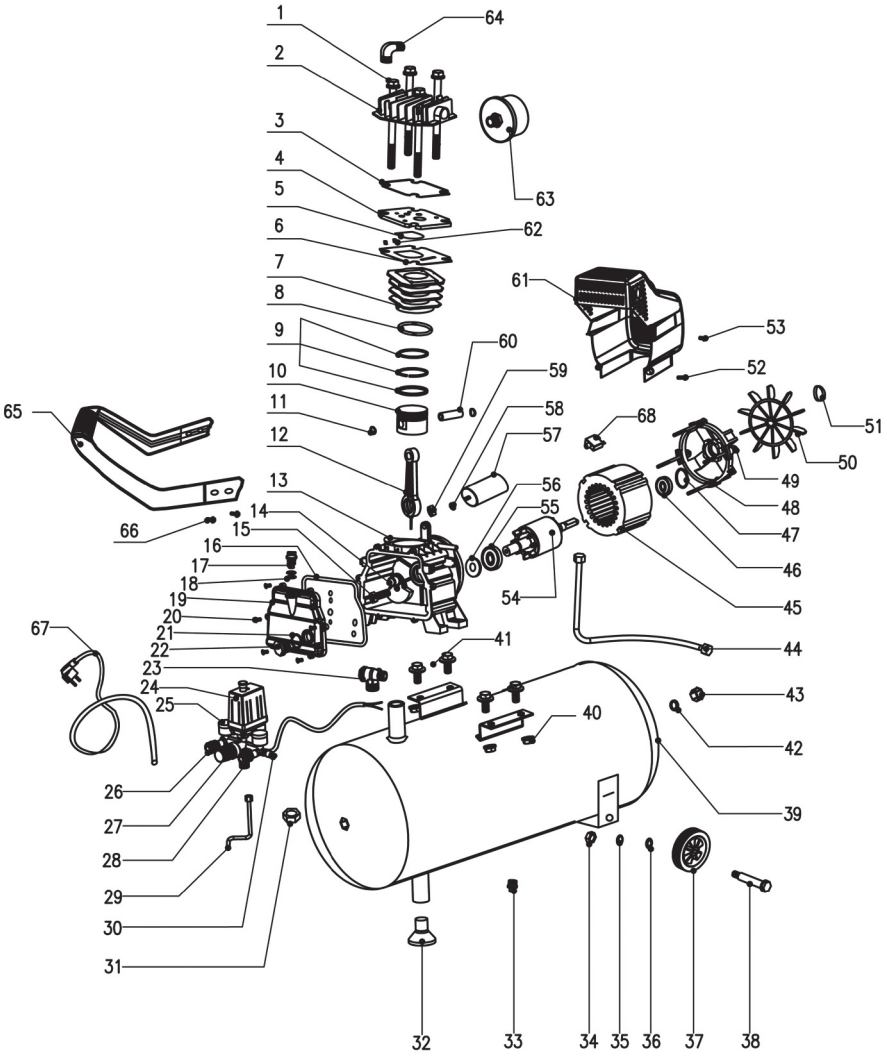
Please note that the details and specifications contained herein, are correct at the time of going to print. We reserve the right to change specifications at any time without prior notice.

TROUBLESHOOTING

CAUTION: DO NOT TRY TO REPAIR OR ADJUSTMENT IF YOU ARE UNCERTAIN. IF YOU HAVE ANY QUERIES, CONTACT YOUR CLARKE DEALER.

PROBLEM	PROBABLE CAUSE	REMEDY
The compressor has stopped and does not start.	Bad electrical connections.	1. Check electrical connections. 2. Clean and tighten if necessary.
	Overload cutout switch has tripped.	1. Switch off and wait approx 5 minutes. 2. Press the reset button and switch on again.
	Motor windings burnt out.	1. Contact your Clarke dealer for a replacement motor.
The compressor does not reach the set pressure and overheats easily.	Compressor head gasket blown or valve broken.	1. Return the machine to your nearest service agent.
Compressor does not start.	The reservoir has already fully pressurised.	1. Open drain valve to expel air. Compressor should start again when pressure reduces.
Air leaking from the non-return valve when the compressor is not running.	Faulty non-return valve.	1. Drain receiver completely of air. 2. Remove the valve end plug, 3. Carefully clean the valve seat and the gasket 4. Reassemble.
Air pressure from the regulator will not adjust.	The diaphragm within the regulator body is broken.	1. Replace regulator
The compressor is very noisy and makes a metallic knocking sound.	Compressor damaged and needs overhaul.	1. Return the machine to your nearest service agent.

EXPLODED DIAGRAM



Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

PARTS LIST

	Description	Part No
1	Blot M8x103	HTPAN1024001
2	Cylinder Cover	HTPAN1024002
3	Cylinder Cover Gasket	HTPAN1024003
4	Valve Plate	HTPAN1024004
5	Valve Clack	HTPAN1024005
6	Valve Plate Gasket	HTPAN1024006
7	Cylinder	HTPAN1024007
8	Cylinder Gasket	HTPAN1024008
9	Piston Ring	HTPAN1024009
10	Piston	HTPAN1024010
11	Circlip	HTPAN1024011
12	Conncting Rod	HTPAN1024012
13	Crank Case	HTPAN1024013
14	Crank	HTPAN1024014
15	Hex Bolt M8x22 (Left)	HTPAN1024015
16	Rubber Gasket	HTPAN1024016
17	Breath Pipe	HTPAN1024017
18	Sealed Ring 13x2.5	HTPAN1024018
19	Crank Case Cover	HTPAN1024019
20	Bolt M6x10	HTPAN1024020
21	Oil Leveler Gasket	HTPAN1024021
22	Oil Leveler	HTPAN1024022
23	Only-way Valve	HTPAN1024023
24	Pressure Switch	HTPAN1024024
25	Pressure Gauge	HTPAN1024025
26	Quick Couplers	HTPAN1024026
27	Regulator Valve	HTPAN1024027
28	Distributor	HTPAN1024028
29	Release Pipe	HTPAN1024029
30	Safety Valve	HTPAN1024030
31	Nut Rp1/2	HTPAN1024031
32	Washer Foot	HTPAN1024032
33	Drain Valve	HTPAN1024033
34	Lock Nut M10	HTPAN1024034
35	Washer 10	HTPAN1024035

No	Description	Part No
36	Spring Washer 10	HTPAN1024036
37	Wheel	HTPAN1024037
38	Wheel Bolt M10	HTPAN1024038
39	Tank	HTPAN1024039
40	Lock Nut M8	HTPAN1024040
41	Lock Bolt M8x30	HTPAN1024041
42	Sealed Ring 18x2.4	HTPAN1024042
43	Stem Rp1/2	HTPAN1024043
44	Discharge Pipe	HTPAN1024044
45	Stator	HTPAN1024045
46	Brearing 6203	HTPAN1024046
47	Conugated Washer	HTPAN1024047
48	Motor Cover	HTPAN1024048
49	Bolt M5x105	HTPAN1024049
50	Fan	HTPAN1024050
51	Circlip	HTPAN1024051
52	Bolt St3.9x19	HTPAN1024052
53	Bolt M5x8	HTPAN1024053
54	Rotor	HTPAN1024054
55	Brearing 6204	HTPAN1024055
56	Sealing Ring	HTPAN1024056
57	Capacitance	HTPAN1024057
58	Washer 8	HTPAN1024058
59	Nut M8	HTPAN1024059
60	Piston Pin	HTPAN1024060
61	Fan Cover	HTPAN1024061
62	Column ?3	HTPAN1024062
63	Air Filter	HTPAN1024063
64	Curved Head	HTPAN1024064
65	Plastic Handle	HTPAN1024065
66	Bolt M5x12	HTPAN1024066
67	Power Cord	HTPAN1024067
68	Thermal Protector	HTPAN1024068

DECLARATION OF CONFORMITY

CE

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

Product Description:	Air compressor
Model number(s):	Panther 10/240
Serial / batch Number:	N/A
Date of Issue:	10/12/2012
(Noise Conformity)	
Notified Body:	TÜV SÜD Industrie Service GmbH
	Westendstraße 199
	80686 MÜNCHEN
	Germany
Technical Documentation Holder:	A.R. Pond
	Clarke International
	2a Shrubland Road
	London E10 7RB
	UK
Conformity Assessment Procedure:	to 2000/14/EC Annex VI
Manufacturer:	Clarke International
Noise Related Value:	1.8 kW
Measured Sound Power Level:	95 dB
Guaranteed Sound Power Level:	97 dB

DECLARATION OF CONFORMITY

CE

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC	*Electromagnetic Compatibility Directive.*
2006/42/EC	*Machinery Directive.*
2011/65/EU	*Restriction of Hazardous substances.*
2009/105/EC	*Simple Pressure Vessel Directive.*
2000/14/EC	*Noise Emissions Directive, (amended by 2005/88/EC).*

The following standards have been applied to the product(s):

EN 1012-1:2010, EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011, EN 61000-3-2:2006+A2:2009, EN 61000-3-11:2000

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2012

Signed:

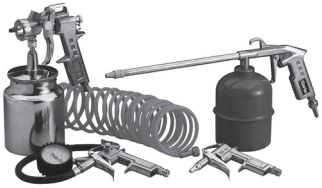
J.A. Clarke
Director

Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

POPULAR ACCESSORIES

Your local Clarke stockists can supply a wide choice of accessories to help you make the very best of your air compressor. These include:

KIT1000



5 Piece Air Accessory Kit – KIT100
Kit comprises:
- Paint spray gun • Recoil hose • Paraffin gun
- Tyre inflator with gauge • Blow gun • All connections 1/4" BSP
- Weight 2kg

CAT116
3/8" Air Drill

CAT118
Sabre Saw

CAT121
Dual Action Sander

CAT108
1/2" Square Drive Reversible Ratchet

CAT109
3/8" Square Drive Reversible Ratchet

CAT115
1/2" Reversible Ratchet

CAT110
1/2" Square Drive Impact Wrench

CAT117
1/2" Impact Wrench

CAT111
Orbital Sander

CAT113
3" CUT-OFF TOOL

A comprehensive choice of Clarke spraying equipment is available for your air compressors, including:

PRO12
This professional spraygun is available with a choice of nozzle sizes to suit air compressors from 1.5HP – 3HP.

TG2
Touch up gun ideal for precision paint spraying and touch up work. This syphon fed, external mix spraygun is popular with professionals.

Air hose is available in a range of lengths. Amongst the most popular are:

BLACK RUBBER AIR HOSE
Complete with connections, this hose is available in lengths from 10m to 50m

RECOIL HOSE
Ideal for DIY and professional use, this recoil house is available in a range of lengths

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS
From DIY to industrial, Plus air tools, spray guns and accesories.

GENERATORS
Prime duty or emergency standby for business, home and leisure.

POWER WASHERS
Hot and cold, electric and engine driven - we have what you need

WELDERS
Mig, Arc, Tig and Spot.
From DIY to auto/industrial.

METALWORKING
Drills, grinders and saws for DIY and professional use.

WOODWORKING
Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS
Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS
Angle grinders, cordless drill sets, saws and sanders.

STARTERS/CHARGERS
All sizes for car and commercial use.

PARTS & SERVICE: 020 8988 7400
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